

# RC-12S1N8A80K5X - Cable connector



1241059

<https://www.phoenixcontact.com/us/products/1241059>

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M23, Cable connector, application: Signal, straight, Screw locking mechanism, No. of pos.: 12, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, coding: N, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

The figure shows the product with assembled crimp contacts. Please order crimp contacts separately.

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1241059       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 1 pc          |
| Product key                          | ABRAFA        |
| GTIN                                 | 4063151438043 |
| Weight per piece (including packing) | 69.44 g       |
| Weight per piece (excluding packing) | 63.513 g      |
| Country of origin                    | DE            |

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## Technical data

### Notes

|                    |                                        |
|--------------------|----------------------------------------|
| Order information: | Order crimp contacts Ø 1 mm separately |
|--------------------|----------------------------------------|

### Product properties

|                     |                                 |
|---------------------|---------------------------------|
| Product type        | Circular connector (cable-side) |
| Number of positions | 12                              |

### Connector

#### Insulating body

|                                         |                                                           |
|-----------------------------------------|-----------------------------------------------------------|
| Note                                    | Order information: Order crimp contacts Ø 1 mm separately |
| Coding                                  | N                                                         |
| Material (Insulating body)              | PA 6.6                                                    |
| Connection method                       | Crimp connection                                          |
| Contact switching type                  | Socket                                                    |
| Application                             | Signal                                                    |
| Number of positions                     | 12                                                        |
| Direction of rotation                   | Standard                                                  |
| Connection profile                      | 12                                                        |
| Number (Contact group 1)                | 12                                                        |
| Contact diameter (Contact group 1)      | 1 mm                                                      |
| Rated current Contact (Contact group 1) | 8 A (for max. connection cross section)                   |
| Rated voltage Contact (Contact group 1) | 48 V AC                                                   |
|                                         | 74 V DC                                                   |
| Rated surge voltage                     | 1.5 kV                                                    |
| Overvoltage category                    | III                                                       |
| Degree of pollution                     | 3                                                         |

#### Housing

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Note                              | Order contact inserts separately |
| Type                              | Cable connector housing          |
| Thread type                       | M23                              |
| Design                            | straight                         |
| Type of locking                   | Screw locking mechanism          |
| Pg screw connection               | none                             |
| Material (Housing)                | Metal                            |
| Degree of protection (plugged in) | IP65                             |
|                                   | IP67                             |
|                                   | IP68                             |

## Environmental and real-life conditions

### Ambient conditions

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|                                          |               |
|------------------------------------------|---------------|
| Permissible humidity (storage/transport) | 50 % ... 65 % |
|------------------------------------------|---------------|

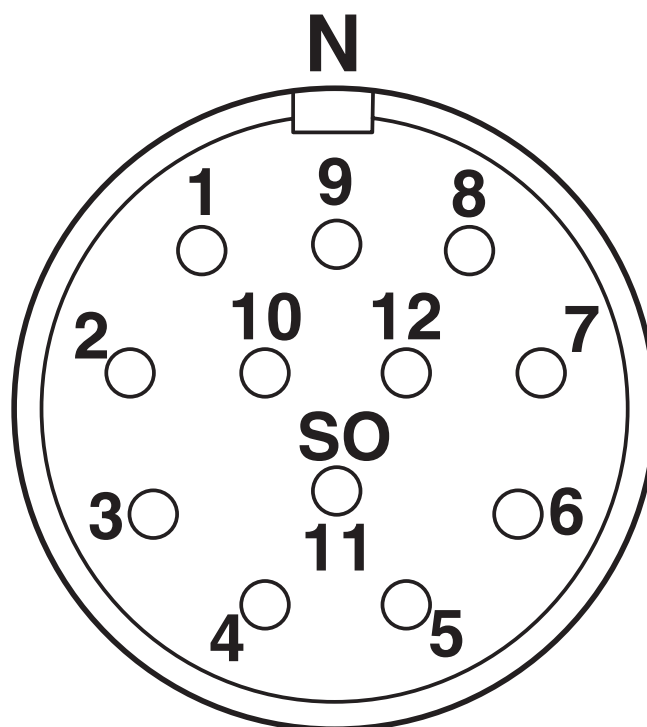
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## Drawings

Schematic diagram



Connector pin assignment

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440116 |
|-------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

### China RoHS

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|                                        | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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